



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

| APPLICATION NO.                 | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---------------------------------|-------------|----------------------|---------------------|------------------|
| 10/782,866                      | 02/23/2004  | Kang Soo Seo         | 1740-0000084/US     | 7080             |
| 30593                           | 7590        | 03/14/2008           |                     |                  |
| HARNESS, DICKY & PIERCE, P.L.C. |             |                      | EXAMINER            |                  |
| P.O. BOX 8910                   |             |                      | DUNN, MISHAWN N     |                  |
| RESTON, VA 20195                |             |                      | ART UNIT            | PAPER NUMBER     |
|                                 |             |                      | 2621                |                  |
|                                 |             |                      |                     |                  |
|                                 |             |                      | MAIL DATE           | DELIVERY MODE    |
|                                 |             |                      | 03/14/2008          | PAPER            |
|                                 |             |                      |                     |                  |

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

|                              |                                      |                                   |
|------------------------------|--------------------------------------|-----------------------------------|
| <b>Office Action Summary</b> | <b>Application No.</b><br>10/782,866 | <b>Applicant(s)</b><br>SEO ET AL. |
|                              | <b>Examiner</b><br>MISHAWN DUNN      | <b>Art Unit</b><br>2621           |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If no period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED. (35 U.S.C. § 133).

Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### **Status**

1) Responsive to communication(s) filed on 23 February 2004.

2a) This action is FINAL.      2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### **Disposition of Claims**

4) Claim(s) 1-16 is/are pending in the application.

4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

5) Claim(s) \_\_\_\_\_ is/are allowed.

6) Claim(s) 1-16 is/are rejected.

7) Claim(s) \_\_\_\_\_ is/are objected to.

8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### **Application Papers**

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on 23 February 2004 is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### **Priority under 35 U.S.C. § 119**

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All    b) Some \* c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### **Attachment(s)**

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/06/08)  
 Paper No(s)/Mail Date 2/08.

4) Interview Summary (PTO-413)  
 Paper No(s)/Mail Date \_\_\_\_\_.

5) Notice of Informal Patent Application

6) Other: \_\_\_\_\_

**DETAILED ACTION**

***Response to Arguments***

1. Applicant's arguments with respect to claims 1-16 have been considered but are moot in view of the new ground(s) of rejection.

***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

3. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

4. Claims 1-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kato et al. (US Pub. No. 2005/0019007) in view of Hirayama et al. (US Pat. No. 5,630,006).

5. Consider claim 1. Kato et al. teaches a computer-readable medium having a data structure for managing playback control of the computer-readable medium, comprising: a data area configured to store a stream; and a navigation area configured to store a plurality of navigation segments including at least one navigation command, the navigation command launching a playlist configured to manage playback of the stream, and navigation segments (paras. 0027, 0031, 00184; figs. 9 and 15).

Kato et al. does not teach a first navigation segment and a second navigation segment representing different reproduction paths of a title.

However, Hirayama et al. teaches a first navigation segment and a second navigation segment representing different reproduction paths of a title (col. 5, line 39 – col. 6, line 62).

Therefore, it would have been obvious to one with ordinary skill in the art, at the time the invention was made to use, to include a first navigation segment and a second navigation segment representing different reproduction paths of a title, in order to allow a user to select one of multiple scenes for viewing.

6. Consider claim 2. Hirayama et al. teaches the computer-readable medium of claim 1, wherein the first navigation segment and the second navigation segment constitute a branch structure in the reproduction paths of the title (col. 5, line 39 – col. 6, line 62; figs. 3B and 4A-C).

7. Consider claim 3. Hirayama et al. teaches the computer-readable medium of claim 2, wherein a branch point of the branch structure is a boundary of playlists (col. 5, line 39 – col. 6, line 62; figs. 3B and 4A-C).

8. Consider claim 4. Kato et al. teaches the computer-readable medium of claim 1, wherein the first navigation segment and the second navigation segment constitute a multi-path structure in the reproduction paths of the title (col. 5, line 39 – col. 6, line 62; figs. 3B and 4A-C).
9. Consider claim 5. Kato et al. teaches the computer-readable medium of claim 4, wherein each of the navigation segments representing the one or more reproduction paths of the title includes a navigation command for launching a playlist (paras. 0027, 0191, 0221-0222; fig. 9).
10. Consider claim 6. Kato et al. teaches the recording medium of claim 5, wherein each launched playlist includes navigation information for reproducing at least a portion of a clip file (paras. 0011, 0017, 0022, 0027-0031).
11. Consider claim 7. Kato et al. teaches the recording medium of claim 6, further comprising: a playlist area storing a playlist directory, the playlist directory storing the at least one playlist; a clip information file directory storing at least one clip information file; and a stream directory storing at least one clip file (paras. 0260, 0431; fig. 14).
12. Consider claim 13. Kato et al. teaches a method of recording a data structure for managing playback control of the recording medium, comprising: recording an information file on the recording medium, the information file including a plurality of navigation segments representing one or more reproduction paths of a title, each of the navigation segments including at least one navigation command, a number of the navigation segments each including a navigation command for launching a playlist, and

one of the navigation segments being an entry navigation segment of the title (paras. 0027, 0031, 00184; figs. 1, 9 and 15).

13. Claims 8-12 and 14 are rejected using similar reasoning as the corresponding claims above.

14. Claims 15 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kato et al. (US Pub. No. 2005/0019007) in view of Hirayama et al. (US Pat. No. 5,630,006) in further view of Sasaki et al. (US Pub. No. 7,050,384).

15. Consider claim 15. Kato et al. and Hirayama et al. teaches all the claimed limitations as stated above, except a driver for driving an optical recording device to record data on the recording medium and a controller for controlling the driver to record an information file on the recording medium.

However, Sasaki discloses a driver for driving an optical recording device to record data on the recording medium and a controller for controlling the driver to record an information file on the recording medium (fig. 1).

Therefore, it would have been obvious to one with ordinary skill in the art, at the time the invention was made to use, to provide a driver for driving an optical recording device and a controller for controlling the driver, in order to record data on the recording medium.

16. Claim 16 is rejected using similar reasoning as the corresponding claim above.

***Conclusion***

**THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MISHAWN DUNN whose telephone number is (571)272-7635. The examiner can normally be reached on Monday - Friday 7:30 aM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thai Tran can be reached on (571)272-7382. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/MISHAWN DUNN/  
Examiner, Art Unit 2621  
February 28, 2008

/Thai Tran/  
Supervisory Patent Examiner, Art Unit 2621